



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/925,879	07/26/2001	Manabu Kai	FUJS 18.774	6186
26304	7590	04/06/2004	EXAMINER	
KATTEN MUCHIN ZAVIS ROSENMAN 575 MADISON AVENUE NEW YORK, NY 10022-2585			LEE, BENNY T	
			ART UNIT	PAPER NUMBER
			2817	

DATE MAILED: 04/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

FILING DATE

FIRST NAMED INVENTOR

ATTORNEY SOCKET NO.

EXAMINE

ART UNIT

PAPER NUMBER

DATE MAILED

From the examiner in charge of the office of patents and trademarks

09/9 25, 879

☐ This application has been examined ☒ Responsive to communication filed on 8 Dec 2003 ☐ This action is made final.

A shortened statutory period for response to this action is set to expire Two (2) month(s), days from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input type="checkbox"/> Notice re Patent Drawing, PTO-948. |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449. | 4. <input type="checkbox"/> Notice of Informal Patent Application, Form PTO-152 |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474. | 6. <input type="checkbox"/> |

Part II SUMMARY OF ACTION

1. ☒ Claims 1, 2, 4-44 are pending in the application.

Of the above, claims 15-18, 20, 21, 37-39, 41, 42 are withdrawn from consideration.

2. ☐ Claims have been cancelled.

3. ☒ Claims 1, 2, 4-14, 19, 22-34, 35, 36, 40, 43, 44 are allowed.

4. ☐ Claims are rejected.

5. ☐ Claims are objected to.

6. ☐ Claims are subject to restriction or election requirement.

7. ☐ This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.

8. ☐ Formal drawings are required in response to this Office action.

9. ☐ The corrected or substitute drawings have been received on 8 Dec 2003. Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice re Patent Drawing, PTO-948).

10. ☒ The proposed additional or substitute sheet(s) of drawings, filed on 8 Dec 2003, has (have) been ☒ approved by the examiner; ☐ disapproved by the examiner (see explanation).

11. ☐ The proposed drawing correction, filed 8 Dec 2003, has been ☐ approved; ☐ disapproved (see explanation).

12. ☐ Acknowledgement is made of the claim for priority under U.S.C. 119. The certified copy has ☐ been received ☐ not been received ☐ been filed in parent application, serial no. 09/9 25, 879; filed on 09/9 25, 879.

13. ☒ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

14. ☐ Other

BEST AVAILABLE COPY

Art Unit: 2817

Claims 15-18, 20, 21, 37-39, 41, 42 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in Paper No. 7.

This application is in condition for allowance except for the following formal matters:

In the Specification:

The disclosure is objected to because of the following informalities: In the replacement paragraph to page 2, line 7, fourth line therein, note that "lithograph" should be rewritten as --lithography--. In the replacement paragraph to page 2, line 18, fourth line therein, note that --(see Fig. 15-- should follow "65a" for consistency of description. In the replacement paragraph to page 4, line 1, fourth line therein, note that "INVER" should be correctly spelled as --INVAR-- and the generic terminology thereof provided. Page 27, line 12, note that --(see Fig. 1)-- should follow "21e" for consistency of description. Appropriate correction is required.

In the Drawings:

The drawings are objected to because in Figs. 8, 9, 10, 11, 12, 16, it is again requested that for the cross-sectional views depicted in these drawing figures, the cross-hatching for the dielectric material in labeled elements (112, 122, 134, 142, 152, 53) need to be properly cross-hatched to be reflective of dielectric material. Note that single line cross-hatching for all layers in the cross-sectional view does not accurately differentiate between elements of conductive material and elements of dielectric material. It should be noted that conductive material is nominally shown with the single line cross-hatching while dielectric material is nominally shown with alternating thick and thin line cross-hatching. A proposed drawing correction or corrected

Art Unit: 2817

drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

In the Claims:

In claim 4, last paragraph, second line therein, note that “formed” should be deleted as being unnecessary.

In claims 6, 27, second paragraph, first line therein, note that --said at least one columnar resonator comprises-- should precede “a plurality ...” for consistency with claim 1 and --which-- should precede “are” for clarity; second paragraph, second line therein, note that “form” should be rewritten as --provide--; second paragraph, fourth line therein, note that --the inner wall and-- should follow “between” for clarity of description, second paragraph, fifth line therein, note that “between” should be rewritten as --therebetween--; second paragraph, fifth & sixth lines, note that “the columnar resonating member” should be deleted as being unnecessary.

In claims 7, 28, line 4 of each claim, note that “has” should be rewritten as --have-- and --respective-- should precede “metal” & “superconductive” for clarity of description; line 5 of each claim, note that --corresponding-- should precede “metal” for clarity of description.

In claims 9, 30, line 2 of each claim, note that --respective-- should precede “metal” for clarity of description; line 3 of each claim, note that “or” should be rewritten as --and-- for a proper characterization.

In claim 24, note that the subject matter recited herein already appears in claim 23 and thus is redundant. Accordingly, it is suggested that claim 24 be deleted as being unnecessary.

In claim 25, lines 3, 9, note that --respective-- should precede “center” for a proper characterization; lines 4, 7, note that --corresponding-- should precede “space amount” and

Art Unit: 2817

“other end”, respectively for a proper characterization; line 6, note that --respective-- should precede “coupling capacity”.

In claim 26, lines 2, 3, 4, note that --respective-- should precede “center”, “surface” and --superconductive--, respectively for a proper characterization; lines 3, 6, note that --corresponding-- should precede “metal” for a proper characterization.

In claims 33, 34, line 3 of each claim, note that --respective-- should precede “signal” at each occurrence.

In claim 36, line 2, note that --said at least one columnar resonator comprises--should precede “a plurality ...” for consistency with claim 35 and --which-- should precede “are” for clarity of description

In claim 43, line 2, note that “of composing” and “of” (second occurrence) should be deleted as being unnecessary.

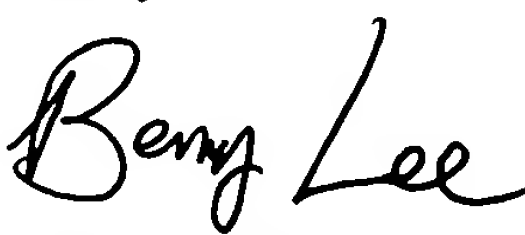
Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Claims 1, 2, 4-14, 19; 22-34; 35, 36, 40; 43, 44 are allowable over the prior art of record.

In view of the indicated allowability of the indicated elected claims, applicants' should consider the disposition of non-elected claims currently pending in the application (e.g. cancellation thereof).

Any inquiry concerning this communication should be directed to Benny Lee at telephone number 571 272 1764.


Benny T. Lee
Primary Examiner